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IN REPLY
REFER TO

DSCC-VAT

1 July 2004

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of MIL-PRF-8805 /11J, /14F, /15G, /17G, /18G, /19F, /23G, /25F, /34E, /38G, /40H, /47G, /48H, /49H, /65D, /76H, /84E, /90F, /96E, /100F, /101K, /104C, /107C, /110D, and /114C.
Project numbers 5930-1838 through -1863.

The drafts of the above subject documents are being sent to you for review and comments. These drafts consist of the following changes:

Updating of referenced documents.
Incorporation of amendments.

If these documents are of interest to you, please provide your comments electronically. This can be in the form of a return e-mail, with or without an attached text file. A 45-day coordination cycle from the date of this letter has been allotted. Please provide your comments within that time period. If no comments are received in the allotted 45 day coordination cycle, concurrence is assumed and all comments received after will be held to the first amendment. If an electronic response is not possible we will still accept comments via letter, facsimile or phone call but only after you have contacted the project officer listed below. The draft documents can be found at the following DSCC-VA web page:

www.dsccl.dla.mil/Programs/MilSpec/initialdrafts.asp

This process still requires military departments to identify their comments as "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians or this office, as applicable, in sufficient time to allow for consolidating the department reply.

If there are any questions, please contact Mark Rush by the preferred method of E-Mail at Mark.Rush@dlm.mil or by telephone at commercial 614-692-0550, DSN 850-0550; or by facsimile at 614-693-1644. Our mailing address as a last resort is Defense Supply Center, Columbus, DSCC-VAT, P.O. Box 3990, Columbus, OH 43216-5000. If you have further questions or concerns you may contact me at Kendall.Cottongim@dlm.mil, by telephone at 614-692-0676 or by facsimile at 614-692-6939.

/ SIGNED /
KENDALL A. COTTONGIM
Chief
Electronics Components Team



NOTE: This draft, dated July 1, 2004 prepared by DLA-CC,
has not been approved and is subject to modification.
DO NOT USE PRIOR TO APPROVAL.
(Project 5930-1850)

INCH-POUND

MIL-PRF-8805/47G
DRAFT

SUPERSEDING
MIL-PRF-8805/47F
3 September 1999

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, SPDT, LEVER, 25 AMPERES, HERMETIC

This specification is approved for use by all Depart-
ments and Agencies of the Department of Defense.

The complete requirements for acquiring the switches described herein
shall consist of this specification and the latest issue of MIL-PRF-8805.

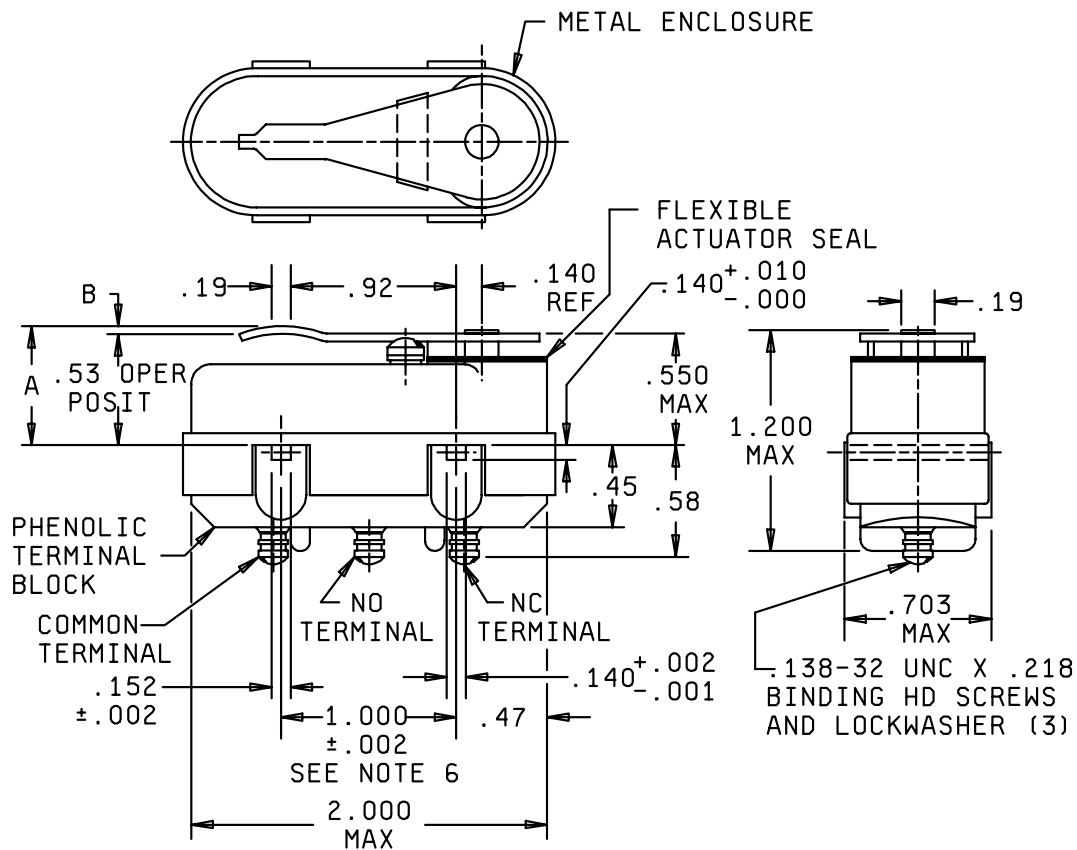


Figure 1. Dimensions and configurations.

Inches	mm	Inches	mm
.003	0.08	.375	9.53
.004	0.10	.437	11.10
.012	0.30	.469	11.91
.015	0.38	.625	15.88
.030	0.76	.630	16.00
.031	0.79	.680	17.27
.042	1.06	.876	22.23
.072	1.83	1.0	25.
.093	2.36	1.295	32.89
.120	3.05	2.0	50.
.250	6.35	72.0	1828.
.257	6.53		

NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is ± 0.015 (0.38 mm).
3. Exact shape of switch optional provided dimensions specified are not exceeded.
4. Mark, stamp, or mold NO and NC terminal designations on adjacent area of switch.
5. Metric equivalents are given for general information only.
6. Mounting holes accept .139 (3.53 mm) maximum diameter pins or screws on $1,000 \pm 0.002$ (25.40 mm ± 0.05 mm) centers.

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 5 (Hermetic).

Temperature characteristic: 1 (-55°C to +85°C).

Shock type: M (100 g's).

Vibration grade: 1 (10 to 500 Hz).

Operating characteristics: See table I.

Part or Identifying Number (PIN): See table I.

Short circuit: 700 amperes.

Strength of actuating means: 25 pounds.

Terminal strength: 30 pounds.

Contact resistance: Not applicable.

Dielectric withstanding voltage:

Sea level: 1,000 V rms initial. 200 V rms after electrical endurance (Application of test potential between unconnected terminals of the same pole is not required.).

Seal tests: Only watertight test shall be performed in group A of table VII and in group I of table VI.

Mechanical endurance: 25,000 cycles at .010 inch minimum overtravel.

Electrical endurance: 10,000 cycles.

Temperature rise: 65°C.

Electrical ratings: See table II.

Qualification inspection:

Group submission: See table III.

Quality assurance:

Group B: Explosion test not applicable.

Group B: Not applicable to inactive part numbers.

MIL-PRF-8805/47G

TABLE I. Operating characteristics. 1/

PIN	A Maximum Free position	B Maximum pretravel	Operating position	Maximum differential travel	Minimum overtravel	Actuating force	Minimum release force
	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>oz</u>	<u>oz</u>
MS25011-1 2/	.600	.065	.53	.020	.010	16 ±8	4
MS25011-2 2/	.610	.085	.53	.020	.010	25 ±3	4
MS25011-3 3/	.790	.065	.72	.020	.010	16 ±6	4
MS25011-4	.610	.085	.53	.020	.010	25 ±3	4

1/ ±20 percent variation from specified values acceptable after test.

2/ MS25011-1 and MS25011-2 - inactive for new design.

3/ MS25011-3 has been canceled without replacement."

NOTE: MS25011 was superseded by MIL-PRF-8805/47; the MS25011 Part Numbers (PINS) were retained.

TABLE II. Electrical ratings.

PIN	Load	Current capacity (amperes)		
		28 V dc	115 V ac, 60 Hz	120 V dc
MS25011-1	Resistive	25	1	1
MS25011-2	Inductive	10	1	.5
MS25011-4	Resistive	25	1	.5
	Inductive	8	1	.5

TABLE III. Group submission.

Examination or test	Basic switch 1/	Other Switch	Extent of approval
Qualification inspection table of MIL-S-8805 (except operating characteristics in group VI shall be tested immediately preceding short circuit, rather than as the final test).	MS25011-2 2/ and MS25011-4 (all sample units)	MS25011-1 2/ (2 sample units) 1. Visual and mechanical examination 2. Operating characteristics	All

1/ MS25011-1 and MS25011-2 are inactive for new design.

2/ Qualification testing of MS25011-4 may be waived if testing is performed on MS25011-2.

NOTE: MS25011 was superseded by MIL-PRF-8805/47; the MS25011 Part Numbers (PINS) were retained.

MIL-PRF-8805/47G

Reference Documents
MIL-PRF-8805

Custodians:

Air Force - 11
Army - CR
Navy - EC
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-1850)

Review activities:

Air Force - 99
Army - AR, AV, MI
Navy - AS, MC, SH

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at www.dodssp.daps.mil.